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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,920	04/20/2006	Rainer Hochsmann	1156-011	9583
<div>25215 7590 12/11/2007</div> <div>DOBRUSIN & THENNISCH PC</div> <div>29 W LAWRENCE ST</div> <div>SUITE 210</div> <div>PONTIAC, MI 48342</div>				
			EXAMINER	
			LIN, ING HOUR	
			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			12/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Advisory Action
Before the Filing of an Appeal Brief**

Application No.

10/559,920

Applicant(s)

HOCHSMANN, RAINER

Examiner

Ing-Hour Lin

Art Unit

1793

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 19 November 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.
b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; ~~as set forth in (b)~~ above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ They raise the issue of new matter (see NOTE below);
(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL -324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: 20-37.
Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s) JONATHAN JOHNSON
13. ☐ Other: _____

SUPERVISORY PATENT EXAMINER

Continuation of 11. does NOT place the application in condition for allowance because: The claimed features are read on by the prior art cited in the office action of final rejection mailed 9/19/07.

Melling et al (col. 2, lines 56+) substantially teach the claimed method for making a water dispersible casting mold comprising the use of (a) providing a water-insoluble particulate material; (b) combining the particulate material such as foundry sands with a binder including polyphosphate; (c) forming, either during or after step (b) the particulate material and binder mixture into a desired shape; and drying (removing) free water from the mixture, wherein the polyphosphate may be derived from water soluble salt-crystal (phosphate glass). Further, the bonding agent is removable in water and sand is recyclable.

Melling et al fail to teach the use of powder dispensing apparatus including an assembly platform. However, Sachs (col. 4, lines 49+) teach the use of powder dispensing apparatus including an assembly and method for producing a mold for casting molten metal, comprising: dispensing layers of powder (sand) on an assembly platform (moveable support surface) and bonding together successive layers of porous material (sand) with droplets of a binder material including the use of drying techniques including microwave for removing liquid (col.6, lines 31+) for the purpose of shortening the cycle time of making a prototyping mold (Sachs, col. 1, lines 47+).

Further, Applicant argued Melling et al fail to teach the use of protein for the bonding agent which is not an issue because the protein was rejected in the non-final office action and the protein is not claimed in the amended or new claims.

Furthermore, Applicant argued that steps h-k of claim 35 are not considered and the finality of the rejection should be withdrawn. However, Melling et al (col.8, lines 54+) indeed teach the steps of applying the claimed casting mold or core for casting aluminum and coring or removing the glass (salt-crystal(phosphate glass))/sand core with water by dissolving the bonding agent.

In conclusion, Applicant's arguments with respect to claims 20 -37 have been considered but are moot in view of the prior art.